

ASSIGNMENT NO 07

SQL Queries

Name:

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Submitted to:

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Subject:

**Database Management
System**

Screenshots of Queries

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.40 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| clothing_store_chain |
| college |
| employee |
| home |
| information_schema |
| mysql |
| performance_schema |
| sys |
| waleed |
+-----+
9 rows in set (0.06 sec)

mysql> create table dept;
ERROR 1046 (3D000): No database selected
mysql> create database dept;
Query OK, 1 row affected (0.16 sec)

mysql> use dept;
Database changed
mysql> CREATE TABLE Dept (
  -> deptno INT PRIMARY KEY,
  -> depname VARCHAR(100)
  -> );
Query OK, 0 rows affected (0.39 sec)

mysql> CREATE TABLE Grade (
  -> gradeno INT PRIMARY KEY,
  -> deptno INT PRIMARY KEY,
  -> depname VARCHAR(100)
  -> );
Query OK, 0 rows affected (0.39 sec)

mysql> CREATE TABLE Grade (
  -> gradeno INT PRIMARY KEY,
  -> lowsalary DECIMAL(10,2),
  -> highsalarY DECIMAL(10,2)
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 4
mysql> CREATE TABLE Grade (
  -> gradeno INT PRIMARY KEY,
  -> lowsalarY DECIMAL(10,2),
  -> highsalarY DECIMAL(10,2)
  -> );
Query OK, 0 rows affected (0.32 sec)

mysql> CREATE TABLE Dept (
  -> deptno INT PRIMARY KEY,
  -> depname VARCHAR(100)
  -> );
ERROR 1050 (42501): Table 'dept' already exists
mysql>
mysql> CREATE TABLE Grade (
  -> gradeno INT PRIMARY KEY,
  -> lowsalarY DECIMAL(10,2),
  -> highsalarY DECIMAL(10,2)
  -> );
ERROR 1050 (42501): Table 'grade' already exists
mysql>
mysql> CREATE TABLE Employee (
  -> empno INT PRIMARY KEY,
  -> ename VARCHAR(100),
  -> hire_date DATE,
  -> salary DECIMAL(10,2),
  -> commission DECIMAL(10,2),
  -> deptno INT,
  -> gradeno INT,
  -> FOREIGN KEY (deptno) REFERENCES Dept(deptno),
  -> FOREIGN KEY (gradeno) REFERENCES Grade(gradeno)
  -> );
Query OK, 0 rows affected (0.86 sec)
```

```

-> FOREIGN KEY (gradeno) REFERENCES Grade(gradeno)
-> );
Query OK, 0 rows affected (0.86 sec)

mysql> show tables;
+-----+
| Tables_in_dept |
+-----+
| dept           |
| employee       |
| grade          |
+-----+
3 rows in set (0.00 sec)

mysql> insert into dept values(101, 'marketing');
Query OK, 1 row affected (0.10 sec)

mysql> insert into dept values(102, 'HR');
Query OK, 1 row affected (0.11 sec)

mysql> insert into dept values(103, 'Finance');
Query OK, 1 row affected (0.09 sec)

mysql> insert into dept values(104, 'emp union');
Query OK, 1 row affected (0.16 sec)

mysql> select* from dept;
+-----+-----+
| deptno | depname |
+-----+-----+
| 101    | marketing |
| 102    | HR       |
| 103    | Finance  |
| 104    | emp union |
+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into grade values(1, 10,000,17,000);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> insert into grade values(1, 10,000,17,000);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> show table grade;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'grade' at lin
e 1

e 1
mysql> CREATE TABLE Grade (
-> gradeno INT PRIMARY KEY,
-> lowsalary DECIMAL(10,2),
-> highsalary DECIMAL(10,2)
-> );
ERROR 1050 (42S01): Table 'grade' already exists
mysql>
mysql> show TABLE grade;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'grade' at lin
e 1
mysql> SHOW TABLES;
+-----+
| Tables_in_dept |
+-----+
| dept           |
| employee       |
| grade          |
+-----+
3 rows in set (0.00 sec)

mysql> select* from grade;
Empty set (0.00 sec)

mysql> insert into grade values(1,10000,17000);
Query OK, 1 row affected (0.10 sec)

mysql> insert into grade values(2,12000,19000);
Query OK, 1 row affected (0.14 sec)

mysql> insert into grade values(3,14000,20000);
Query OK, 1 row affected (0.19 sec)

mysql> insert into grade values(3,15000,20000);
ERROR 1062 (23000): Duplicate entry '3' for key 'grade.PRIMARY'
mysql> insert into grade values(3,15000,22000);
ERROR 1062 (23000): Duplicate entry '3' for key 'grade.PRIMARY'
mysql> insert into grade values(4,15000,22000);
Query OK, 1 row affected (0.14 sec)

```

```
mysql> select* from grade;
```

gradeno	lowsalary	highsalary
1	10000.00	17000.00
2	12000.00	19000.00
3	14000.00	20000.00
4	15000.00	22000.00

```
4 rows in set (0.00 sec)
```

```
mysql> insert into employee values(1234, 'waleed',17,000);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql>
mysql> insert into employee values(1234, 'waleed', '2020-01-15',21000,101,2);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> insert into employee values(1234, 'waleed', '2020-01-15',21000,101,2);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> insert into employee values(1234, 'waleed', '2020-01-15',21000,1000,101,2);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into employee values(1244, 'umer', '2023-04-25',11000,2000,102,1);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> select*from employee;
```

empno	ename	hire_date	salary	commission	deptno	gradeno
1234	waleed	2020-01-15	21000.00	1000.00	101	2
1244	umer	2023-04-25	11000.00	2000.00	102	1

```
2 rows in set (0.00 sec)
```

```
mysql> show tables;
```

Tables_in_dept
dept
employee
grade

```
3 rows in set (0.00 sec)
```

```
3 rows in set (0.00 sec)
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
empno	int	NO	PRI	NULL	
ename	varchar(100)	YES		NULL	
hire_date	date	YES		NULL	
salary	decimal(10,2)	YES		NULL	
commission	decimal(10,2)	YES		NULL	
deptno	int	YES	MUL	NULL	
gradeno	int	YES	MUL	NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> update employee set salary = 50000,comission = 5000 where empno= 102;
ERROR 1054 (42S22): Unknown column 'comission' in 'field list'
mysql> update employee set salary = 50000,commission = 5000 where empno= 102;
Query OK, 0 rows affected (0.12 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

```
mysql> select*from employee;
```

empno	ename	hire_date	salary	commission	deptno	gradeno
1234	waleed	2020-01-15	21000.00	1000.00	101	2
1244	umer	2023-04-25	11000.00	2000.00	102	1

```
2 rows in set (0.00 sec)
```

```
mysql> update employee set salary = 50000,commission = 5000 where empno= 1234;
Query OK, 1 row affected (0.08 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select*from employee;
```

empno	ename	hire_date	salary	commission	deptno	gradeno
1234	waleed	2020-01-15	50000.00	5000.00	101	2
1244	umer	2023-04-25	11000.00	2000.00	102	1

```
2 rows in set (0.00 sec)
```

```
mysql> select*from employee;
+-----+-----+-----+-----+-----+-----+
| empno | ename  | hire_date | salary | commission | deptno | gradeno |
+-----+-----+-----+-----+-----+-----+
| 1234  | waleed | 2020-01-15 | 50000.00 | 5000.00    | 101    | 2        |
| 1244  | umer   | 2023-04-25 | 11000.00 | 2000.00    | 102    | 1        |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT DISTINCT deptno FROM Employee;
+-----+
| deptno |
+-----+
| 101    |
| 102    |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT ename AS Employee_Name FROM Employee;
+-----+-----+
| Employee_Name |
+-----+-----+
| waleed        |
| umer          |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT ename, salary FROM Employee
-> WHERE salary > 20000;
+-----+-----+
| ename | salary |
+-----+-----+
| waleed | 50000.00 |
+-----+-----+
1 row in set (0.03 sec)
```

```
-> ORDER BY salary DESC;
+-----+-----+
| ename | salary |
+-----+-----+
| waleed | 50000.00 |
| umer   | 11000.00 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT ename, salary FROM Employee
-> ORDER BY salary DESC;
+-----+-----+
| ename | salary |
+-----+-----+
| waleed | 50000.00 |
| umer   | 11000.00 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT ename, salart FROM Employee ORDER BY salary ASC;
ERROR 1054 (42S22): Unknown column 'salart' in 'field list'
mysql> SELECT ename, salary FROM Employee ORDER BY salary ASC;
+-----+-----+
| ename | salary |
+-----+-----+
| umer   | 11000.00 |
| waleed | 50000.00 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql>
```

```

+-----+
| salary+200 |
+-----+
| 50200.00 |
| 11200.00 |
+-----+
2 rows in set (0.00 sec)

mysql> SELECT salary-200 FROM Employee where empno=1;
Empty set (0.03 sec)

mysql> CREATE TABLE Employee (
  ->      empno INT PRIMARY KEY,
  ->      ename VARCHAR(100),
  ->      hire_date DATE,
  ->      salary DECIMAL(10,2),
  ->      commission DECIMAL(10,2),
  ->      deptno INT,
  ->      gradeno INT,
  ->      FOREIGN KEY (deptno) REFERENCES Dept(deptno),
  ->      FOREIGN KEY (gradeno) REFERENCES Grade(gradeno)
  -> SELECT salary-200 FROM Employee where empno=1234;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '->      empno
INT PRIMARY KEY,
  ->      ename VARCHAR(100),
  ->      hire_dat' at line 2
mysql> SELECT salary-200 FROM Employee where empno=1234;
+-----+
| salary-200 |
+-----+
| 49800.00 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT salary+250/12 FROM Employee;
+-----+
| salary+250/12 |
+-----+
| 50020.8333 |
| 11020.8333 |
+-----+
2 rows in set (0.00 sec)

mysql>

ERROR 1054 (42S22): Unknown column 'salart' in 'field list'
mysql> SELECT ename, salary FROM Employee ORDER BY salary ASC;
+-----+
| ename | salary |
+-----+
| umer | 11000.00 |
| waleed | 50000.00 |
+-----+
2 rows in set (0.00 sec)

mysql> SELECT salary*12 FROM Employee;
+-----+
| salary*12 |
+-----+
| 600000.00 |
| 132000.00 |
+-----+
2 rows in set (0.00 sec)

mysql> SELECT salary*12 AS ANNUAL FROM Employee;
+-----+
| ANNUAL |
+-----+
| 600000.00 |
| 132000.00 |
+-----+
2 rows in set (0.00 sec)

mysql> SELECT salary+200 FROM Employee;
+-----+
| salary+200 |
+-----+
| 50200.00 |
| 11200.00 |
+-----+
2 rows in set (0.00 sec)

```

```
mysql> select ename,salary from employee where salary>12000;
+-----+-----+
| ename | salary |
+-----+-----+
| waleed | 50000.00 |
+-----+-----+
1 row in set (0.00 sec)

mysql> select ename,salary from employee where salary==11000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '==11000' at line 1
mysql> select ename,salary from employee where salary=11000;
+-----+-----+
| ename | salary |
+-----+-----+
| umer | 11000.00 |
+-----+-----+
1 row in set (0.00 sec)

mysql> select ename,salary from employee where salary!=11000;
+-----+-----+
| ename | salary |
+-----+-----+
| waleed | 50000.00 |
+-----+-----+
1 row in set (0.00 sec)

mysql> select ename,salary from employee where salary<=11000;
+-----+-----+
| ename | salary |
+-----+-----+
| umer | 11000.00 |
+-----+-----+
1 row in set (0.00 sec)

mysql>
```

```
mysql> select salary from employee where salary>50000;
Empty set (0.00 sec)

mysql> select salary from employee where salary>10000;
+-----+
| salary |
+-----+
| 50000.00 |
| 11000.00 |
+-----+
2 rows in set (0.00 sec)

mysql> select salary from employee where salary>120000;
Empty set (0.00 sec)

mysql> select salary from employee where salary>12000;
+-----+
| salary |
+-----+
| 50000.00 |
+-----+
1 row in set (0.00 sec)

mysql> select ename,salary from employee where salary>12000;
+-----+-----+
| ename | salary |
+-----+-----+
| waleed | 50000.00 |
+-----+-----+
1 row in set (0.00 sec)

mysql>
```

```
mysql> SELECT ename, salary, deptno FROM Employee WHERE deptno = 101 AND salary > 10000;
```

```
+-----+-----+-----+
| ename | salary | deptno |
+-----+-----+-----+
| waleed | 50000.00 | 101 |
+-----+-----+-----+
1 row in set (0.05 sec)
```

```
mysql> SELECT ename, salary, deptno FROM Employee WHERE deptno = 102 OR salary > 3000;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= 102 OR salary > 3000' at line 1

```
mysql> SELECT ename, salary, deptno FROM Employee WHERE deptno = 102 OR salary > 3000;
```

```
+-----+-----+-----+
| ename | salary | deptno |
+-----+-----+-----+
| waleed | 50000.00 | 101 |
| umer | 11000.00 | 102 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT ename, deptno FROM Employee WHERE NOT deptno = 101;
```

```
+-----+-----+
| ename | deptno |
+-----+-----+
| umer | 102 |
+-----+-----+
1 row in set (0.06 sec)
```